WHAT IS CLAIMED IS:

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- 1. A semiconductor device comprising:
- a semiconductor substrate:
- at least one layer of a first insulating film formed above the semiconductor substrate and having a relative dielectric constant of 3.8 or less, an entire layer of the first insulating film being separated at least near four corners of the semiconductor substrate by a lacking portion that extends along the four corners;

 and
 - a second insulating film covering a side face of the entire layer of the first insulating film in the lacking portion on a center side of the semiconductor substrate and having a relative dielectric constant of over 3.8.
- 2. A semiconductor device as set forth in claim 1, wherein the lacking portion in the first insulating film is formed near an entire peripheral edge of the semiconductor substrate.
 - 3. A semiconductor device as set forth in claim 1, wherein the second insulating film covers a side face of the entire layer of the first insulating film in the lacking portion also on a peripheral edge side of the semiconductor substrate.
 - 4. A semiconductor device as set forth in claim 1, further comprising a conductor film layered on the second insulating film in the lacking portion.
- 5. A semiconductor device as set forth in claim 4, further comprising a third insulating film layered on the conductor film and having a relative dielectric constant of over 3.8
 - 6. A semiconductor device as set forth in claim 1,

wherein the second insulating film also covers a top face of the first insulating film, and the semiconductor device further comprising

a conductor pattern passing through the second insulating film on the top face of the first insulating film.

- 7. A semiconductor device as set forth in claim 6, further comprising a conductor pattern buried in the first insulating film.
- 8. A semiconductor device as set forth in claim 6, wherein the conductor pattern contains copper.
- 9. A semiconductor device as set forth in claim 1, wherein the first insulating film is constituted of a plurality of layers.
 - 10. A semiconductor device as set forth in claim 1, wherein the lacking portion in the first insulating film has a width of 0.5 $\,\mu m$ or more.
- 11. A semiconductor device as set forth in claim 1, wherein the first insulating film on a peripheral edge side of the semiconductor substrate has a width of 0.5 μ m or more from the lacking portion.
- 12. A semiconductor device as set forth in claim 1, wherein 20 a side of the lacking portion in the first insulating film has a length of 1 mm or more.
 - 13. A semiconductor device comprising:
 - a semiconductor substrate;

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at least one layer of a first insulating film formed above
the semiconductor substrate and having a relative dielectric
constant of 3.8 or less, an entire layer of the first insulating
film being separated at least near four corners of a semiconductor
chip by a lacking portion that extends along the four corners; and

a second insulating film formed in the lacking portion and on the first insulating film and having a relative dielectric constant of over 3.8.

- 14. A semiconductor device as set forth in claim 13, wherein the lacking portion in the first insulating film is formed near an entire peripheral edge of the semiconductor chip.
 - 15. A semiconductor device as set forth in claim 13, further comprising a conductor film layered on the second insulating film in the lacking portion.
- 16. A semiconductor device as set forth in claim 15, further comprising a third insulating film layered on the conductor film and having a relative dielectric constant of over 3.8.
 - 17. A semiconductor device as set forth in claim 13, wherein the first insulating film is constituted of a plurality of layers.
- 18. A semiconductor device as set forth in claim 13, wherein the lacking portion in the first insulating film has a width of 0.5 μm or more.
 - 19. A semiconductor device as set forth in claim 13, wherein the first insulating film between the lacking portion and a peripheral edge of the semiconductor chip has a width of 0.5 μm or more from the lacking portion.
 - 20. A semiconductor device as set forth in claim 13, wherein a side of the lacking portion in the first insulating film has a length of 1 mm or more.

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